

Atty.  
Dkt. No.

M#

Client Ref.

0268252

020321

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Date: February 9, 2001

Page 1 of 1

Applicant: LITOVITZ, Theodore A.

Appln. No.: 09/737,546

Filing Date: December 18, 2000

Examiner:

Group Art Unit:

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
PLA	AR 5,450,859	09/19/95	LITOVITZ			
	BR 5,544,665	08/13/96	LITOVITZ			
ALR	CR 5,566,685	10/22/96	LITOVITZ			
	DR 5,968,527	10/19/99	LITOVITZ			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
ER				Enclosed	No

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

PLA	FR	Aquino DA, et al., "Multiple sclerosis: altered expression of 70- and 27-kDa heat shock proteins in lesions and myelin," J. Neuropathol. Exp. Neurol. 1997;56(6):664-672			
	GR	Birnbaum G, et al., "Heat shock or stress proteins and their role as auto-antigens in multiple sclerosis," Ann. NY Acad. Sci. 1997;835:157-167.			
	HR	Blank M, et al., "Changes in polypeptide distribution stimulated by different levels of electro-magnetic and thermal stress," Bioelectrochemistry and Bioenergetics 1994;33:109-114			
	IR	Boehncke WH, et al., "Differential expression heat shock protein 70 (HSP70) and heat shock cognate proteins 70 (HSC70) in human epidermis," Arch. Dermatol. Res. 1994; 287(1):68-71.			
	JR	Borrelli MJ, et al., "Thermotolerance expression in mitotic CHO cells without increased translation of heat shock proteins," J. Cell Physiol. 1988;169:420-8.			
	KR	Cadossi R, et al., "Effect of low frequency low energy pulsing electromagnetic fields on mice injected with cyclophosphamide," Exp. Hematol. 1991;19:196-201			
	LR	Chang BK, et al., "Inhibition of DNA synthesis and enhancement of the uptake and action of methotrexate by low -power-density microwave radiation in L1210 leukemic cells," Cancer Res. 1980;40:1002-1005.			
	MR	Currie RW, et al., "Heat-shock response is associated with enhanced postischemic ventricular recovery" Circ.Res. 1988;63:543-549			
	NR	Detlavs I, et al., "Experimental study of the effects of radiofrequency electromagnetic fields on animals with soft tissue wounds," Sci.Total.Environ. 1996;180:35-42			
	OR	Di Carlo AL, et al., "Myocardial protection conferred by electromagnetic fields,) Circulation 1999;99:813-816			
PLA	PR	Di Carlo AL, et al., "Short-Term Magnetic Field Exposures (60 Hz) Induce Protection Against Ultraviolet Radiation Damage," Int.J.Radiat.Biol. 1998;75:1541-1550			

Examiner

Date Considered: 6-26-2003

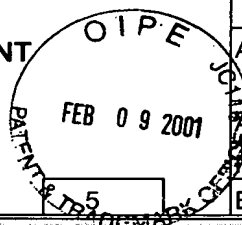
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**INFORMATION DISCLOSURE STATEMENT  
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Applicant: LITOVITZ, T.A.

Appln. No.: 09/737,546

Filing Date: December 19, 2000

Date: February 9, 2001

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Examiner:

Group Art Unit:

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
AR						

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
BR				Enclosed	No

**OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

CR	Dindar H, et al., "The effect of electromagnetic field stimulation on corticosteroids-inhibited intestinal wound healing," Tokai J. Exp. Clin. Med. 1993;18:49-55				
DR	Donnelly TJ, et al., "Heat shock protein induction in rat hearts. A role for improved myocardial salvage after ischemia and reperfusion?," Circulation 1992;85:769-778				
ER	Essele KP, et al., "Coil optimization for neural stimulation with magnetic field," in Electricity and Magnetism in Biology and Medicine, Blank M, Ed. San Francisco Press, Inc. CA. p. 736-7, 1993				
FR	Fitzsimmons RJ, et al., "Embryonic bone matrix formation is increased after exposure to a low- amplitude capacitively coupled electric field, in vitro," Biochim. Biophys. Acta 1986;882:51-56				
GR	Fuks Z, et al., "Basic fibroblast growth factor protects endothelial cells against radiation-induced programmed cell death in vitro and in vivo," Cancer Res. 1994;54:2582-90				
HR	Goodman R, et al., "Increased levels of HSP70 transcripts induced when cells are exposed to low frequency electromagnetic fields," Bioelectrochemistry and Bioenergetics 1994;33:115-120				
IR	Gordon, SA, et al., "Induction of heat shock protein 70 protects thymocytes against radiation-induced apoptosis," Arch. Surg. 1997;132:1277-82				
JR	Han L, et al., "Application of magnetic field-induced heat shock protein 70 for presurgical cytoprotection," J. Cell Biochem. 1998;71:577-583				
KR	He L et al., "Variation of heat shock protein 70 through the cell cycle in HL-60 cells and its relationship to apoptosis," Exp. Cell Res. 1997;232:64-71				
LR	Hutter MM, et al., "Heat-shock protein induction in rat hearts. A direct correlation between the amount of heat-shock protein induced and the degree of myocardial protection," Circulation 1994;89:355-360				
MR	Iwaki K, et al., "Induction of HSP70 in cultured rat neonatal cardiomyocytes by hypoxia and metabolic stress," Circulation 1993;87:2023-2032				
NR	Kang KI, et al., "Luciferase activity and synthesis of Hsp70 and Hsp90 are insensitive to 50Hz electromagnetic fields," Life Sci. 1998;63:489-97				
OR	Korner G, et al., "Effects of ionizing irradiation on endothelial cell transglutaminase," FEBS Lett. 1993;330:41-5				

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Applicant: LITOVITZ, T.A.

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Date: February 9, 2001

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**OTHER (including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

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	DR	Martin DF, et al., "Radiation sensitivity of cultured rabbit aortic endothelial cells," IJROBP 1984;10:1903-6			
1	ER	Matsumoto H, et al., "Suppression of heat-induced p53 accumulation and activation by CDDP or x-rays in human glioblastoma cells," Int. J. Oncol. 1998;13(4):741-7			
	FR	McCleary VL, et al., "Low magnetic field effects on embryonic bone growth," Biomed.Sci.Instrum. 1991;27:205-217			
	GR	McMillan DR, et al., "Targeted disruption of heat shock transcription factor 1 abolishes thermotolerance and protection against heat-inducible apoptosis," J. Biol. Chem. 1998;273:7523-8			
	HR	Mestrl R, et al., "Expression of inducible stress protein 70 in rat heart myogenic cells confers protection against simulated ischemia-induced injury," J.Clin.Invest. 1994;93:759-767			
	IR	Mestrl R, et al., "Heat shock proteins and protection against myocardial ischemia," J.Mol.Cell Cardiol. 1995;27:45-52			
	JR	Morimoto R, et al., "Cell-specific expression of heat shock proteins in chicken reticulocytes and lymphocytes," J.Cell Biol. 1984;99:1316-1323			
	KR	Omote Y, et al., "Treatment of experimental tumors with a combination of a pulsing magnetic field and an antitumor drug," Jpn. J. Cancer Res. 1990;81:956-961			
	LR	O'Rourke JF, et al., "X-irradiation- and carcinogen-induced proteins in cultured CHO cells," Biochem. Soc. Trans. 1992;20(1):74S.			
	MR	Pasquinelli P, et al., "Biological effects of PEMF (pulsing electromagnetic field): An attempt to modify cell resistance to anticancer agents," J. Environ. Pathol. Toxicol. Oncol. 1993;12(4):193-197			
	NR	Qi F, et al., "Functional and morphological damage of endothelium in rabbit ear artery following irradiation with cobalt 60," Br. J. Pharmacol. 1998;123:653-60.			
164	OR	Ritossa FM, "A new puffing pattern induced by heat shock and DNP in Drosophila," Experientia 1962;18:571-573			
	PR	Ruiter GA, et al., "Alkyl-lysophospholipids activate the SAPK/JNK pathway and enhance radiation-induced apoptosis," Cancer Res. 1999;59:2457-63			

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Date Considered: 6-26-2003

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FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
(PW FORM PAT-1449)  
Patent and Trademark Office

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**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Applicant: LITOVITZ, Theodore A.

Appln. No.: 09/737,546

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Group Art Unit:

Date: February 9, 2001

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**U.S. PATENT DOCUMENTS**

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AR						

**FOREIGN PATENT DOCUMENTS**

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
BR				Enclosed	No

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DR	Samali A, et al., "Heat shock proteins increase resistance to apoptosis," Exp. Cell Res. 1996;223(1):163-170				
ER	Schett G, et al., "Enhanced expression of heat shock protein 70 (hsp70) and heat shock factor 1 (HSF1) activation in rheumatoid arthritis synovial tissue," J. Clin. Invest. 1998;102(2):302-311				
FR	Strasser A, et al., "Bcl-2 and thermotolerance cooperate in cell survival," Cell Growth Differ. 1995;6:799-805				
GR	Szigeti G, et al., "Effects of Bimoclomal, the novel heat shock protein co-induced, in dog ventricular myocardium," Life Sci. 2000;67:73-79				
HR	Tosi P, et al., "Reduction of heat-shock protein-70 after prolonged treatment with retinoids: biological and clinical implications," Am.J. Hematol. 1997;56(3):143-150				
IR	Trautinger F, et al., "Over expression of the small heat shock protein, hsp27, confers resistance to hyperthermia, but not to oxidative stress and UV-induced cell death, in a stably transfected squamous cell carcinoma cell line," J. Photochem. Photobiol. B 1997;39:90-5				
JR	Tyrrell RM, "UV activation of mammalian stress proteins," EXS 1996;77:255-271				
KR	Ueno S, et al., "Vectorial magnetic stimulation of the human brain," in Electricity and Magnetism in Biology and Medicine, Blank M, Ed. San Francisco Press, Inc. CA. p. 733-4, 1993				
LR	Walker DM, et al., "Heat stress limits infarct size in the isolated perfused rabbit heart," Cardiovasc.Res. 1993;27:962-967				
MR	Walter RJ, et al., "60-Hz electric fields inhibit protein kinase C activity and multidrug resistance gene (MDR1) up-regulation," Rad. Res. 1997;147:369-75				
NR	Watters D, "Molecular mechanisms of ionizing radiation-induced apoptosis," Immunol. Cell Biol. 1999;77:263-71				
OR	Xu M, et al., "Intracellular distribution of hsp70 during long duration moderate hyperthermia," Int. J. Hyperthermia 1998;14:211-25				
PR	Miyakoshi, J.M., et al., "Long-term Exposure to a Magnetic Field (5 mT at 60Hz) Increases X-ray-induced Mutations," J. Radiat. Res., 40, 13-21 (1999).				

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Date Considered: 6-25-2001

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FORM PTO-1449 (modified)  
To: U.S. Department of Commerce  
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Applicant: LITOVITZ, Theodore A.

Appln. No.: 09/737,546

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Examiner: TBD

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**U.S. PATENT DOCUMENTS**

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	AR					
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	MR					
	NR					

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	OR				
	PR				
	QR				
	RR				
	SR				
	TR				
	UR				

**OTHER (including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)**

VR	Svedenstal, B.-M., et al., "Lymphoma development among mice exposed to X-rays and pulsed magnetic fields," Int. J. Radiat. Biol., 1993, vol. 65, no. 1, 119-125
WR	Walleczek, J., et al., "Increase in Radiation-Induced HPRT Gene Mutation Frequency after Nonthermal Exposure to Nonionizing 60 Hz Electromagnetic Fields," Radiation Research 151, 489-97 (1999)
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YR	
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AAR	

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